Asim Aziz

Professor

College of Electrical & Mechanical Engineering

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About

Dr. Asim Aziz is working as Professor in the College of Electrical & Mechanical Engineering. Dr. Asim Aziz has a PhD in Mathematics. Dr. Asim Aziz has published 41 research articles & conference papers having a citation count of 1104, carried out 0 projects and filed 0 intellectual property.

Qualifications

QAU Scholarship Quaid-i-Azam University Merit Scholarship	2000
Funded PhD Scholarship Nominated by NUST for HEC University Best Teacher Award	2001
Awards	
NUST Institute of Information Technology	
Assistant Professor	2006 - 2007
Assistant Professor College of Electrical & Mechanical Engineering	2007 - 2016
College of Electrical & Mechanical Engineering	
Assistant Professor	2012 - 2006
Associate Professor College of Electrical & Mechanical Engineering	2016 - 2020
College of Electrical & Mechanical Engineering	2020-1165611
Experience Professor	2020- Present
FBISE, Islamabad , Pakistan	
Matric (SSC) in Science	1988 - 1990
FBISE, Islamabad , Pakistan	
F.Sc in Science-General	1990 - 1992
BSc in Mathematics A, Mathematics B, Physics University of the Punjab , Pakistan	1992 - 1994
MSc in Mathematics Quaid-i-Azam University , Pakistan	1996 - 1998
MPhil in Mathematics Quaid-i-Azam University , Pakistan	
	1998 - 2000
PhD in Mathematics Glasgow Caledonian University , United Kingdom	2002 - 2008

Research Articles

Nanofluid cooling in photovoltaic thermal systems: Influence of thermal radiation, MHD, Joule heating, and carbon nanotubes

2025

Moniba Shams Asim Aziz H. M. S. Bahaidarah Taha Aziz

Journal of Renewable and Sustainable Energy, Volume:17, Issue:4, Article Number 043501

Impact Factor: 1.900 | Quartile: 4

DOI: https://doi.org/10.1371/journal.pone.0258107

Advanced neural network modeling with Levenberg–Marquardt algorithm for optimizing tri-hybrid nanofluid dynamics in solar HVAC systems Asim Aziz H.M.S. Bahaidarah T. Aziz T. Zamir Syed Afaq Hussain Shah Case Studies in Thermal Engineering, Volume 65,Article Number 105609 Impact Factor: 6.400 Quartile: 1 Citations: 1 DOI: https://doi.org/10.1016/j.csite.2024.105609	2025
Multiple solutions and conserved vectors of a shallow water wave equation arising in fluid mechanics; Lie group analysis Oke Davies Adeyemo Chaudry Masood Khalique Mufid Abudiab Asim Aziz Chinese Journal of Physics, Volume 89, Pages 582-600 Impact Factor: 5.0 Quartile: 1 Citations: 4 DOI: https://doi.org/10.1016/j.cjph.2024.02.054	2024
Analyzing the American portfolio options within the CEV model incorporating dividend yield by the Lie symmetry approach Saba Javaid Asim Aziz Taha Aziz Discrete and Continuous Dynamical Systems - Series S, Pages 1-16 Impact Factor: 1.300 Quartile: 2 DOI: 10.3934/dcdss.2024076	2024
Mathematical model for a thermal cooling system with variable viscosity and thermal conductivity over a rotating disk Asim Aziz Syed Tayyab Hussain Shah Amna Sadiq Case Studies in Thermal Engineering, Volume 52, Article Number 103664 Impact Factor: 6.8 Quartile: 1 Citations: 6 DOI: https://doi.org/10.1016/j.csite.2023.103664	2023
Double reduction of the Gibbons-Tsarev equation using admitted Lie point symmetries and associated conservation laws Winter Sinkala Charles M. Kakuli Taha Aziz Asim Aziz International Journal of Nonlinear Analysis and Applications, Volume 13, Issue 2, Pages 713-721 Impact Factor: 0 DOI: 10.22075/IJNAA.2022.25829.3136	2022
Algebraic solutions for pricing American put options under the constant elasticity of variance (CEV) model: Application of the Lie group approach Saba Javaid Asim Aziz Taha Aziz Journal of Computational Science, Volume 62, Article Number 101680 Impact Factor: 3.817 Quartile: 1 Citations: 4 DOI: https://doi.org/10.1016/j.jocs.2022.101680	2022
Entropy analysis with the Cattaneo-Christov heat flux model for the Powell-Eyring nanofluid flow over a stretching surface Taha Aziz Asim Aziz Moniba Shams Haitham M.S. Bahaidarah Hafiz Muhammad Ali Waves in Random and Complex Media, Pages 1-26 Impact Factor: 4.853 Quartile: 1 Citations: 3 DOI: 10.1080/17455030.2022.2060534	2022
Pulsatile Darcy flow of water-based thermally radiative carbon nanotubes between two concentric cylinders Naeem Ur Rehman Syed Tayyab Hussain Shah Asim Aziz Numerical Methods for Partial Differential Equations, Pages 1-18 Impact Factor: 3.009 Quartile: 1 Citations: 8 DOI: 10.1002/num.22870	2022
Group theoretical analysis for unsteady magnetohydrodynamics flow and radiative heat transfer of power-law nanofluid subject to Navier's slip conditions Saba Javaid Asim Aziz Taha Aziz PLoS One, Volume 16(10), Article Number e0258107	2021

Thermal examination of renewable solar energy in parabolic trough solar collector utilizing Maxwell nanofluid: A noble case study Wasim Jamshed Mohamed R. Eid Nor AinAzeany Mohd Nasir Kottakkaran Sooppy Nisar Asim Aziz Faisal Shahzad C Ahmed Saleel Anurag Shukla Case Studies in Thermal Engineering, Volume 27, Article Number 101258 Impact Factor: 4.724 Quartile: 1 Citations: 81 DOI: 10.1016/j.csite.2021.101258	2021
Group Invariant Solutions for Flow and Heat Transfer of Power-Law Nanofluid in a Porous Medium Saba Javaid Asim Aziz Mathematical Problems in Engineering, Volume 2021, Article ID 9942425, 14 pages Impact Factor: 1.430 Quartile: 3 Citations: 5 DOI: https://doi.org/10.1155/2021/9942425	2021
Computational investigation of heat transfer in a flow subjected to magnetohydrodynamic of Maxwell nanofluid over a stretched flat sheet with thermal radiation Tayyaba Mukhtar Wasim Jamshed Asim Aziz Wael Al-Kouz Numerical Methods for Partial Differential Equations, Pages 1-21 Impact Factor: 3.009 Quartile: 1 Citations: 37 DOI: https://doi.org/10.1002/num.22643	2020
Entropy analysis of Powell–Eyring hybrid nanofluid including effect of linear thermal radiation and viscous dissipation Asim Aziz Wasim Jamshed Taha Aziz Haitham M. S. Bahaidarah Khalil Ur Rehman Journal of Thermal Analysis and Calorimetry, Pages 1-15 Impact Factor: 4.626 Quartile: 1 Citations: 157 DOI: https://doi.org/10.1007/s10973-020-10210-2	2020
Group theoretical analysis for magnetohydrodynamic generalized Stokes' flow and radiative heat transfer model of a non-Newtonian nanofluid with heat generation/absorption Taha Aziz Saba Javaid Asim Azizi M. A. Sadiq Journal of Thermal Analysis and Calorimetry, Pages 1-18 Impact Factor: 4.626 Quartile: 1 Citations: 10 DOI: https://doi.org/10.1007/s10973-020-09722-8	2020
Lie Symmetry Reductions and Exact Solutions for Magnetohydrodynamic Flow and Heat Transfer of Third Grade Nanofluid with Thermal Radiation Asim Aziz Saba Javaid Journal of Thermal Analysis and Calorimetry, Pages 1-16 Impact Factor: 4.626 Quartile: 1 Citations: 6 DOI: https://doi.org/10.1007/s10973-020-09712-w	2020
Entropy generation in MHD Maxwell nanofluid flow with variable thermal conductivity, thermal radiation, slip conditions, and heat source Asim Aziz Moniba Shams AIP Advances, Volume 10, Issue 1, Article Number 015038 Impact Factor: 1.548 Quartile: 4 Citations: 63 DOI: https://aip.scitation.org/doi/full/10.1063/1.5129569	2020
Heat transfer and entropy analysis of Maxwell hybrid nanofluid including effects of inclined magnetic field, Joule heating and thermal radiation Wasim Jamshed Yasir Ali Moniba Shams Asim Aziz Discrete and Continuous Dynamical Systems Series S, Pages 1-24 Impact Factor: 1.233 Quartile: 2 Citations: 76 DOI: 10.3934/dcdss.2020142	2019
Entropy and heat transfer analysis using Cattaneo-Christov heat flux model for a boundary layer flow of Casson nanofluid Dr. Asim Aziz Asif Mehmood Wasim Jamshed Results in Physics, NULL Impact Factor: 3.042 Quartile: 1 Citations: 56 DOI: https://doi.org/10.1016/j.rinp.2018.07.005	2018
Unsteady MHD slip flow of non Newtonian power-law nanofluid over a moving surface with temperature dependent thermal conductivity	2018

Asim Aziz Wasim Jamshed

Discrete and Continuous Dynamical Systems-Series S, Volume 11(4), Pages 617-630	
Impact Factor: 0.545 Quartile: 4 Citations: 28	
DOI: doi: 10.3934/dcdss.2018036	
A comparative entropy based analysis of Cu and Fe3O4/methanol Powell-Eyring nanofluid in solar	2018
thermal collectors subjected to thermal radiation, variable thermal conductivity and impact of different	
nanoparticles shape	
Asim Aziz Wasim Jamshed	
Results in Physics, NULL	
Impact Factor: 3.042 Quartile: 1 Citations: 106	
DOI: https://doi.org/10.1016/j.rinp.2018.01.063	
Cattaneo-Christov based study of TiO2 ?CuO/EG Casson hybrid nanofluid flow over a stretching	2018
surface with entropy generation	
Dr. Asim Aziz Wasim Jamshed	
Applied Nanoscience, Volume: 8, Issue:4, Pages 685-698	
Impact Factor: 3.198 Quartile: 2 Citations: 127	
DOI: https://doi.org/10.1007/s13204-018-0820-y	
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Mathematical model for thermal and entropy analysis of thermal solar collectors by using Maxwell	2018
nanofluids with slip conditions, thermal radiation and variable thermal conductivity	
Asim Aziz Wasim Jamshed Taha Aziz	
Open Physics, Volume 16, Pages 123-136	
Impact Factor: 1.005 Quartile: 3 Citations: 66	
DOI: https://doi.org/10.1515/phys-2018-0020	
Influence of Variable Thermal Conductivity and Thermal Radiation on Slip Flow and Heat Transfer of	2018
MHD Power-Law Fluid Over a Porous Sheet	
Asim Aziz Saba Javaid	
Thermal Sciences, NULL	
Impact Factor: 1.541 Quartile: 3	
DOI: https://doi.org/10.2298/TSCI150825065J	
A Review of Mixture Theory for Deformable Porous Media and Applications	2017
Asim Aziz J. I. Siddique Aftab Ahmed C M Khalique	2017
Applied Sciences, Volume 7, Issue 7, Article Number 738	
Impact Factor: 1.689 Quartile: 3 Citations: 36	
DOI: https://doi.org/10.3390/app7090917	
DOI. https://doi.org/10.5590/app/090917	
Mathematical model for thermal solar collectors by using magnetohydrodynamic Maxwell nanofluid	2017
with slip conditions, thermal radiation and variable thermal conductivity	
Asim Aziz Asif Mehmood Wasim Jamshed Sajid Hussain	
Results in Physics, NULL	
Impact Factor: 2.147 Quartile: 2 Citations: 29	
DOI: https://doi.org/10.1016/j.rinp.2017.08.045	
Classical Model of Prandtl's Boundary Layer Theory for Radial Viscous Flow: Application of (G'/G)-	2017
Expansion Method	2017
Asim Aziz Taha Aziz T. Motsepa A. Fatima C.M. Khalique	
Journal of Computational Analysis & Applications, NULL	
Impact Factor: N/A	
DOI: http://www.eudoxuspress.com/jocaaa2017.html	
Numerical investigation of magnetohydrodynamic slip flow of power-law nanofluid with temperature	2017
dependent viscosity and thermal conductivity over a permeable surface	
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Impact Factor: 0.755 Quartile: 4 Citations: 8	
DOI: https://doi.org/10.1515/phys-2017-0104	
Slip Flow and Heat Transfer of Nanofluids over a Porous Plate Embedded in a Porous Medium with	2016
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Applied Sciences , NULL

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Transport and heat transfer of time dependent MHD slip flow of nanofluids in solar collectors with variable thermal conductivity and thermal radiation Dr. Asim Aziz Khadeeja Afzal Results in Physics, NULL	2016
Impact Factor: 0.946 Quartile: 3 Citations: 42 DOI: https://doi.org/10.1016/j.rinp.2016.09.017	
Fluid structure interaction model for biological systems in the presence of magnetic field ASIM AZIZ Muhammad Shoaib International Journal of Modern Physics B, NULL Impact Factor: 0.736 Quartile: 4 Citations: 1	2016
DOI: https://doi.org/10.1142/S0217979216400051 Exact Solutions for Stokes? Flow of a Non-Newtonian Nanofluid Model: A Lie Similarity Approach Asim Aziz Taha Aziz C M Khalique	2016
Zeitschrift Fur Naturforschung Section A-A Journal of Physical Sciences, NULL Impact Factor: 1.432 Quartile: 2 Citations: 23 DOI: https://doi.org/10.1515/zna-2016-0031	
Heat Transfer Analysis for Stationary Boundary Layer Slip Flow of a Power-Law Fluid in a Darcy Porous Medium with Plate Suction/Injection	2015
Asim Aziz Yasir Ali Taha Aziz J.I. Siddique PLoS ONE, Volume:10, Issue:9, Article Number: e0138855 Impact Factor: 3.057 Quartile: 1 Citations: 10 DOI: 10.1371/journal.pone.0138855	
Analytical solution for time-dependent flow of a third grade fluid induced due to impulsive motion of a flat porous plate Dr. Asim Aziz Taha Aziz F. M. Mahomed Azeem Shahzad Acta Mathematicae Applicatae Sinica, English Series, Volume 31, Pages757–766 Impact Factor: 0.250 Quartile: 4 Citations: 1 DOI: DOI:10.1007/s10255-015-0503-3	2015
Group Theoretical Analysis and Invariant Solutions for Unsteady Flow of a Fourth-Grade Fluid over an Infinite Plate Undergoing Impulsive Motion in a Darcy Porous Medium Asim Aziz Taha Aziz Aeeman Fatima F M Mahomed Zeitschrift Fur Naturforschung Section A-A Journal of Physical Sciences, Volume: 70, Issue: 7, Pages483-497 Impact Factor: 0.886 Quartile: 3 Citations: 5 DOI: https://doi.org/10.1515/zna-2015-0099	2015
Steady Boundary Layer Slip Flow along with Heat and Mass Transfer over a Flat Porous Plate Embedded in a Porous Medium Asim Aziz J. I. Siddique Taha Aziz PLoS ONE, NULL Impact Factor: 3.234 Quartile: 1 DOI: https://doi.org/10.1371/journal.pone.0114544	2014
Group invariant solutions for the unsteady MHD flow of a third grade fluid in a porous medium Asim Aziz Taha Aziz F M Mahomed International Journal of Non Linear Mechanics, NULL Impact Factor: 1.345 Quartile: 2 Citations: 34 DOI: https://doi.org/10.1016/j.ijnonlinmec.2012.04.002	2012
MHD flow of a third grade fluid in a porous half space with plate suction or injection: An analytical approach Asim Aziz Taha Aziz Applied Mathematics and Computation, Volume 218, Issue 21, Pages 10443-10453 Impact Factor: 1.349 Quartile: 1 Citations: 45 DOI: https://doi.org/10.1016/j.amc.2012.04.006	2012
Algebraic computations for spinors in general relativity Bokhari Ashfaque H Qadir Asghar Aziz Asim	2001

Conference Proceedings

The Shape Effects on Heat Transfer and Entropy of MHD Casson Nanofluid Over a Stretching Surface with Slip Condition, Thermal Radiation and Variable Thermal Conductivity Asim Aziz The 12th AIMS Conference on Dynamical Systems, Differential Equations and Applications 2018, res.country(227,) Citations: N/A	2018
DOI: http://aimsciences.org/conferences/2018/abstracts-2018-06-17.pdf#page=213 The Shape Effects on Heat Transfer and Entropy of MHD Casson Nanofluid Over a Stretching Surface with Slip Condition, Thermal Radiation and Variable Thermal Conductivity Asim Aziz 12th AIMS Conference on Dynamical Systems, Differential Equations and Applications, res.country(227,) Citations: N/A DOI: http://aimsciences.org/conferences/2018/abstracts-2018-06-17.pdf#page=213	2018
Editorial Activities	
Case Studies in Thermal Engineering Reviewed Papers for Journals Impact Factor: 6.4	2024
International Journal of Thermofluids Reviewed Papers for Journals	2024
South African Journal of Chemical Engineering Reviewed Papers for Journals Impact Factor: 1.4	2024
Heliyon Reviewed Papers for Journals Impact Factor: 3.4	2024
Scientific Reports Reviewed Papers for Journals Impact Factor: 3.8	2024
Case Studies in Thermal Engineering Reviewed Papers for Journals Impact Factor: 6.4	2024
Journal of Taibah University for Science Reviewed Papers for Journals Impact Factor: 2.8	2024
International Journal of Modern Physics B Reviewed Papers for Journals Impact Factor: 2.6	2024
Journal of Nonlinear Mathematical Physics Reviewed Papers for Journals Impact Factor: 1.4	2024
Case Studies in Thermal Engineering Reviewed Papers for Journals Impact Factor: 6.4	2024
International journal of ambient energy Reviewed Papers for Journals Impact Factor: 3.4	2024
Nanotechnology Reviews Reviewed Papers for Journals Impact Factor: 7.4	2024
Chinese Journal of Physics	2024

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Impact Factor: 4.6	
Heliyon	2024
Reviewed Papers for Journals Impact Factor: 3.4	
Case Studies in Thermal Engineering	2024
Reviewed Papers for Journals	
Impact Factor: 6.4	
Chinese Journal of Physics	2024
Reviewed Papers for Journals Impact Factor: 4.6	
Heliyon	2024
Reviewed Papers for Journals	
Impact Factor: 4.563	
Nanotechnology Reviews	2024
Reviewed Papers for Journals	
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Subscribe to Arabian Journal of Chemistry	2024
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Case Studies in Thermal Engineering	2024
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Numerical heat transfer. Part A. Applications Reviewed Papers for Journals Impact Factor: 2.569	2023
International Communications in Heat and Mass Transfer Reviewed Papers for Journals Impact Factor: 6.782	2023
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Heliyon Reviewed Papers for Journals Impact Factor: 3.776	2023
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International Journal of Modern Physics B	2023
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Arabian Journal of Chemistry	2023
Reviewed Papers for Journals	
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Modern Physics Letters B	2023
Reviewed Papers for Journals	2020
Impact Factor: 1.9	
Nanotechnology Reviews	2023
Reviewed Papers for Journals	
Impact Factor: 6.739	
International Journal of Thermofluids	2023
Reviewed Papers for Journals	
Impact Factor: N/A	
Case Studies in Thermal Engineering	2023
Reviewed Papers for Journals	2023
Impact Factor: 6.268	
Numerical Heat Transfer Part A-Applications	2023

Reviewed Papers for Journals
Impact Factor: 2.569
Open Physics Reviewed Papers for Journals

2023

C als Impact Factor: 1.361 **Surfaces and Interfaces** 2023 Reviewed Papers for Journals Impact Factor: 6.137 **Journal of Magnetism and Magnetic Materials** 2023 Reviewed Papers for Journals Impact Factor: 3.097 Journal of Magnetism and Magnetic Materials 2023 Reviewed Papers for Journals Impact Factor: 3.097 Numerical heat transfer. Part B, Fundamentals 2023 Reviewed Papers for Journals Impact Factor: 1.378 Nanotechnology Reviews 2023 Reviewed Papers for Journals Impact Factor: 7.848 **Journal of Magnetism and Magnetic Materials** 2023 Reviewed Papers for Journals Impact Factor: 3.097 Nanotechnology Reviews 2023 Reviewed Papers for Journals Impact Factor: 6.739 ZAMM-Zeitschrift fur Angewandte Mathematik und Mechanik 2023 Reviewed Papers for Journals Impact Factor: 1.603 South African Journal of Chemical Engineering 2023 Reviewed Papers for Journals Impact Factor: N/A The European Physical Journal Plus 2023 Reviewed Papers for Journals Impact Factor: 3.758 International Journal of Applied and Computational Mathematics 2023 Reviewed Papers for Journals Impact Factor: N/A **Journal of Magnetism and Magnetic Materials** 2023 Reviewed Papers for Journals Impact Factor: 3.097 **Open Physics** 2023 Reviewed Papers for Journals Impact Factor: 1.361

2022

Case Studies in Thermal Engineering Reviewed Papers for Journals

Impact Factor: 6.268 **Arabian Journal of Chemistry**

Reviewed Papers for Journals Impact Factor: 6.212

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Reviewed Papers for Journals Impact Factor: 1.219

International Journal of Modern Physics B Reviewed Papers for Journals Impact Factor: 1.404	2022
International Journal of Modern Physics B Reviewed Papers for Journals Impact Factor: 1.219	2022
Journal of Magnetism and Magnetic Materials Reviewed Papers for Journals Impact Factor: 3.097	2022
Journal of Magnetism and Magnetic Materials Reviewed Papers for Journals Impact Factor: 3.097	2022
International Journal of Modern Physics B Reviewed Papers for Journals Impact Factor: 1.404	2022
Open Physics Reviewed Papers for Journals Impact Factor: 1.361	2022
Chaos Solitons & Fractals Reviewed Papers for Journals Impact Factor: 9.922	2022
International Journal of Applied and Computational Mathematics Reviewed Papers for Journals Impact Factor: NA	2022
Scientific Reports Reviewed Papers for Journals Impact Factor: 4.996	2022
Open Physics Reviewed Papers for Journals Impact Factor: 1.361	2022
International Journal of Modern Physics B Reviewed Papers for Journals Impact Factor: 1.404	2022
Numerical Heat Transfer Part A-Applications Reviewed Papers for Journals Impact Factor: 2.928	2022
Reviewed Papers for Journals Impact Factor: 1.404	2022
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International Journal of Modern Physics B Reviewed Papers for Journals	2022

Impact Factor: 1.219

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Impact Factor: 2.993 Reviewed Papers for Journals	2022
Impact Factor: 5.944 Reviewed Papers for Journals	2022
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Reviewed Papers for Journals Impact Factor: 1.219	2021
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Reviewed Papers for Journals Impact Factor: 3.998	2021
Reviewed Papers for Journals Impact Factor: 0.83	2021
Reviewed Papers for Journals Impact Factor: 3.724	2021
Reviewed Papers for Journals	2021

Impact Factor: 0.83

Impact Factor: 1.574

Reviewed Papers for Journals Impact Factor: 3.427	2021
Reviewed Papers for Journals Impact Factor: 0.833	2021
Edited Journal Issue / Proceeding / Book Impact Factor: 1.13	2020
Edited Journal Issue / Proceeding / Book Impact Factor: 1.009	2020
Reviewed Papers for Journals Impact Factor: 3.427	2020
Reviewed Papers for Journals	2019